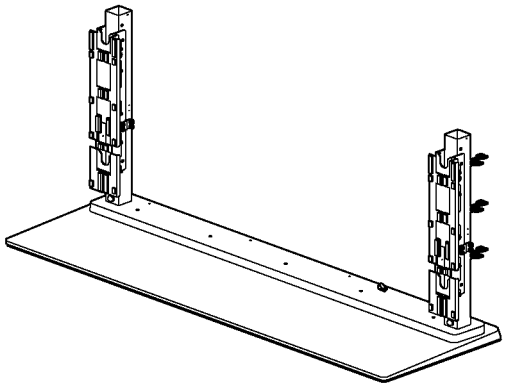
Order Number ITD0910146CE

Service Manual

Pedestal for Plasma Display

Model No. TY-ST85P12
TY-ST85P12C



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

WARNING

Ensure that the installation location is strong enough to support long-term use.
• If its strength becomes insufficient over the course of long-term use, the display may topple over, possibly causing injury.

Installation and removal should only be carried out by a qualified technician.
• If the pedestal is not installed correctly, the Plasma display may fall over and become damaged, and personal injury may result.

Do not disassemble or modify the pedestal
• Otherwise the unit may fall over and become damaged, and personal injury my result.

Do not install in a location that cannot support the entire load.
• If the strength of the installation surface is insufficient, the display may fall over and personal injury may results.

CAUTION

Do not use any displays other than those given in the catalogue.
• Otherwise the unit may fall over and become damaged, and personal injury may result.

Do not climb up onto the pedestal or use it as a step. (Young children should be made particularly aware of this caution.)
• If the unit falls over or becomes damaged through misuse, injury may result.

Keep the unit away from direct sunlight and heating equipment.
• Failure to do so may result in warping, deformation, or degradation of materials, and a loss of strength that may cause the equipment to fall over or break and cause injury.

Do not use the pedestal if it becomes warped or physically damaged.
• If you use the pedestal whilst it is physically damaged, personal injury may result.

Set up on a stable, level surface.
• If this is not done, the unit may fall over and become damaged, and personal injury may result.

Take steps to prevent toppling.
• Earthquakes or children climbing up or onto the display may cause the display to topple over, possibly resulting in injury.

When installing or removing the plasma display and pedestal, use a lowering device (machine), and ensure that the work is done by at least four persons.
• If four people are not present, the display may be dropped, and personal injury may result.

During setting-up, make sure that all screws are securely tightened
• If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the Plasma Display, and it might fall over and become damaged, and personal injury may result.

Leave a space of at least 10 cm along the top, left and right of the plasma display, and at least 15 cm behind the display, and also provide some space between the bottom and the floor surface
• The plasma display unit has air blow and air suction holes on the bottom and rear. Covering these may result in a fire.

Dispose of the product when it is no longer going to be used.
• Otherwise, it may break and fall down, possibly causing injury.

Requests regarding handling

1) Exercise care when selecting the location for the display because it may discolor or deform due to light or heat if it is placed where it is exposed to direct sunlight, or near a heater.
2) For cleaning, wipe the display using a soft dry cloth (made of cotton or flannel). If the unit is extremely soiled, first wipe off soiling with a neutral detergent diluted in water, and then wipe with a dry cloth. Do not use cleaners such as benzene, thinner or furniture wax because they may cause paint peeling. (For information on cleaning the display unit, see the display unit's instruction manual. If using a chemicallytreated cloth, follow the instructions supplied with the cloth.)
3) Do not affix adhesive tape or stickers to the product. Doing so may dirty the surface of the pedestal. Do not allow long-term contact with rubber, vinyl products or the like. (Doing so will cause deterioration.)
4) The panel of the plasma display is made of glass. Do not apply a strong force to it or subject it to impact.

Points to note during installation

- In order to ensure correct, problem-free operation of the Plasma Display, do not install the Display in any of the following places.
  - Near sprinklers or fire/smoke detectors.
  - Where there is a risk of exposure to vibration or impact.
  - Near high-voltage wires or dynamic power supplies.
  - Near sources of magnetism, heat, water vapor or soot.
  - Locations exposed to air blown from heating equipment.
  - Where droplets of condensation from an air conditioner or other unit may form.
- Insert the power cord plug for the Plasma Display into a wall outlet which is close and easily accessible.
- Provide adequate ventilation so that the temperature around the display does not rise above 40 °C (104 °F). If there is insufficient movement of the air inside display, heat may build up inside the display, and fire may result.
- Fit so there is no contact between the attachment bolts or power cord and any metal inside the wall.
- Spread a soft blanket or cloth over the floor so that the stand and floor will not be marked or scratched during the assembly and installation work.
- Perform the assembly and installation work on a flat and level surface, and follow the assembly and installation work instructions.
- When screwing down the parts, ensure that the screws are neither insufficiently tightened nor over tightened.
- Take sufficient care to ensure safety around you when performing the assembly and installation work or while moving about during the course of the work.
- Do not use any components other than the packaged ones.
- Be sure to read and observe the "Precautions with regard to setting up".

2 Specifications

Dimensions (W × H × D)	
main body	55 $^{11}/_{64}$" (1401 mm) × 28 $^{33}/_{64}$" (724 mm) × 17 $^{29}/_{64}$" (443 mm)
with packing	60 $^{41}/_{64}$" (1540 mm) × 9 $^{19}/_{64}$" (236 mm) × 23 $^{15}/_{32}$" (596 mm)
Mass (weight)	
main body	127.9lb (58.0 kg)
with packing	154.4lb (70.0 kg)

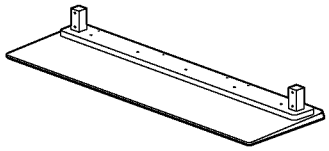
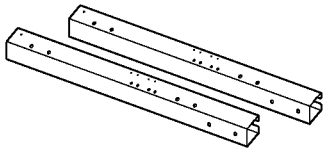
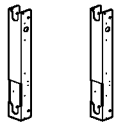
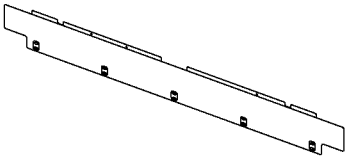
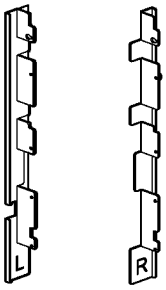
Note : Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

3 Disassembly and Assembly Instructions

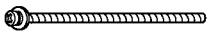
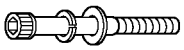
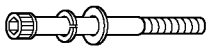
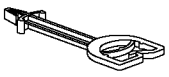
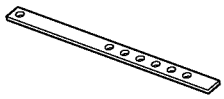
Please assemble and install the pedestal according to the following procedures.

3.1. Parts for pedestal assembly

Main parts

Ⓐ Stand base (1) 	Ⓑ Supports (2) (The left and right supports are identical.) 	Ⓒ Display mounting fixtures (2) (The left and right display mounting fixtures are identical.) 
Ⓓ Light shield (1) 	Ⓔ Grounding plates (2 each on left and right) 	Ⓕ Grounding plates (small) (2) (The left and right grounding plates are identical.)

Accessory parts

① Allen key (6 mm) (1) 	② Light shield mounting screws M5×65 (5) 	③ Clamp (1)
④ Flanged cap nuts (8) 	⑤ Support mounting hexagon bolts (with washers) M8×60 (4) 	⑥ Display mounting fixture hexagon bolts (with washers) M8×70 (4) 
⑦ Unit lock-in screws M6×60 (2) 	⑧ Grounding plate screws M4×10 (28) 	⑨ Clamp mounting screw (1) Toppling prevention strap mounting screws (8) Total: 9 Nominal diameter: 5 mm (wood screws)
⑩ Clamp (6) 	⑪ Toppling prevention belt (4) 	

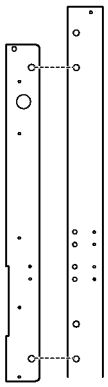
3.2. Assembly

Never use any other method than specified to install.

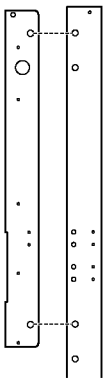
1. Preparation of supports (one each on left and right)

The weight of the pedestal is approximately 58 kg (127.9 lbs.).
For the weight of the plasma display attached to the pedestal, please see manual for the plasma display.
When mounting the plasma display, use holes **A** .
When using the touch panel (optional), use holes **B** .

A

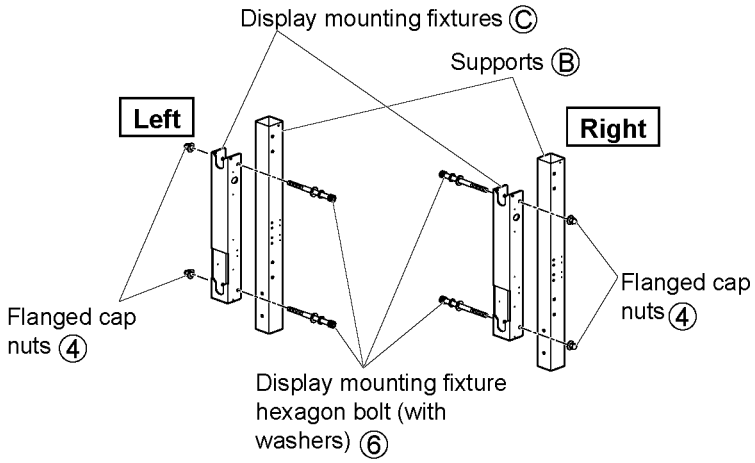


B : When the touch panel is used



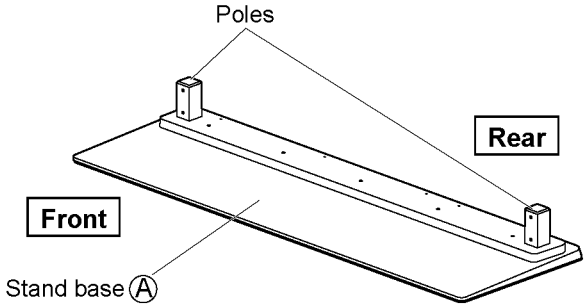
1. **Join display mounting fixture Ⓒ to support Ⓑ using 2 display mounting fixture hexagon bolts ⑥ and 2 flanged cap nuts ④ .**
   Assemble so that the flanged cap nut ④ is on the side of support Ⓑ facing outside.
   Assemble the other side the same way.

   - The bolt should be securely tightened to the torque given below.
     (12~14 N•m)

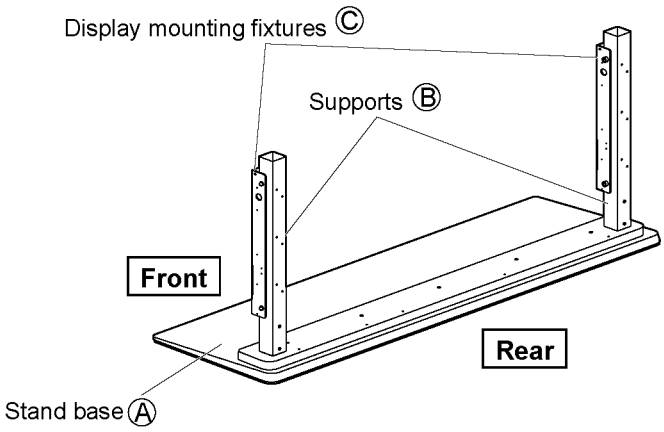


2. Mounting of supports

1. **Confirm which is the front and rear of stand base Ⓐ .**
   The side to which the poles are closer is the rear.

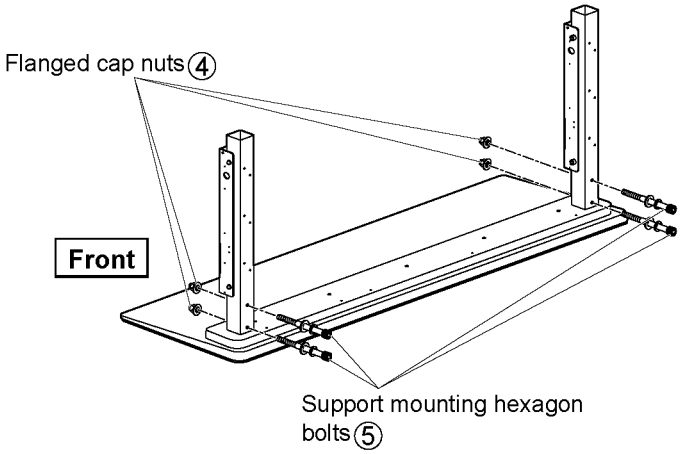


2. **Slip the left and right supports Ⓑ onto the poles of stand base Ⓐ from the top so that the display mounting fixtures Ⓒ face the front.**



3. **Mount the 4 support mounting hexagon bolts ⑤ onto the support Ⓑ from the back. Affix them securely from the front with flanged cap nuts ④.**

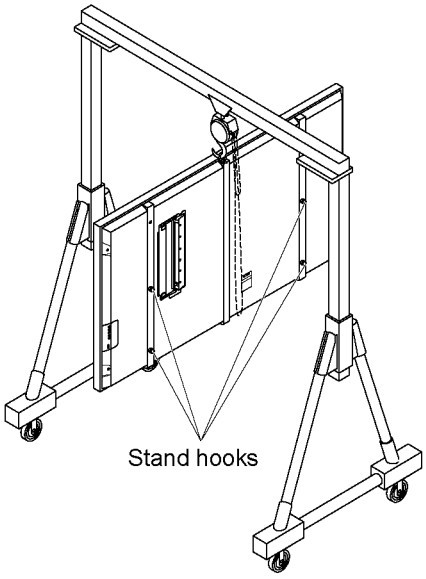
   - The bolt and nuts should be securely tightened to the torque given below. (12~14 N•m)



3. Preparation and installation of plasma display

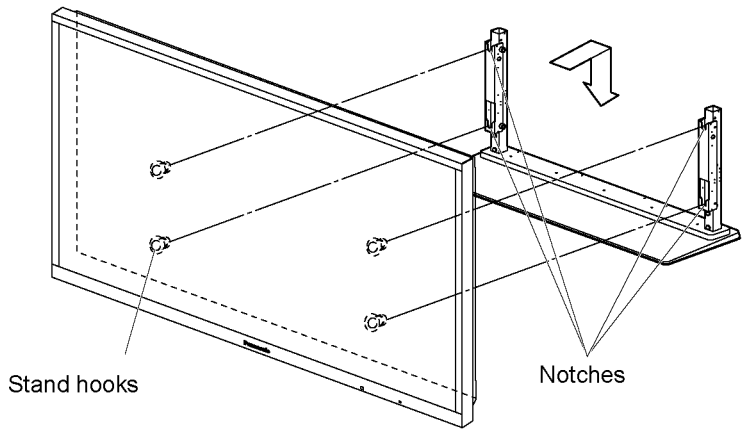
Caution

- The plasma display is heavy so use a device (machine) that will enable the plasma display to be lowered in place.
- The controls of the plasma display panel are located on the right side panel so ensure that they are not bumped into or knocked during the installation process.
- Make sure that the stand hooks are firmly secured.



1. **To lift the plasma display, connect the suspension device's hook to the eye bolt in the center of the plasma display.**

2. **Join the stand hooks to the 4 notches on the display mounting fixture and let them drop in until they stop.**

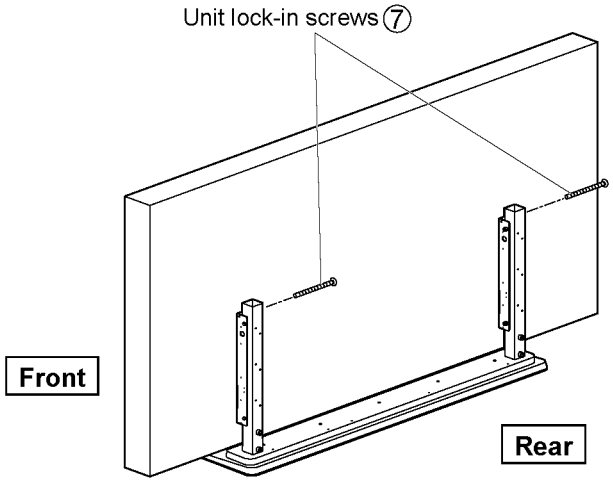


3. **Starting with the upper left side of the left and right display mounting fixtures Ⓒ , attach the 2 unit lock-in screws⑦ .**

   - The screws should be securely tightened to the torque given below.
     (1.2~1.5 N•m)

   Note

   - Do not over-tighten the unit lock-in screws ⑦ , as this could cause the fixtures to deform.



4. **Remove the suspension device.**
   Remove the eye bolt and insert the eye bolt cap (provided with the plasma display).

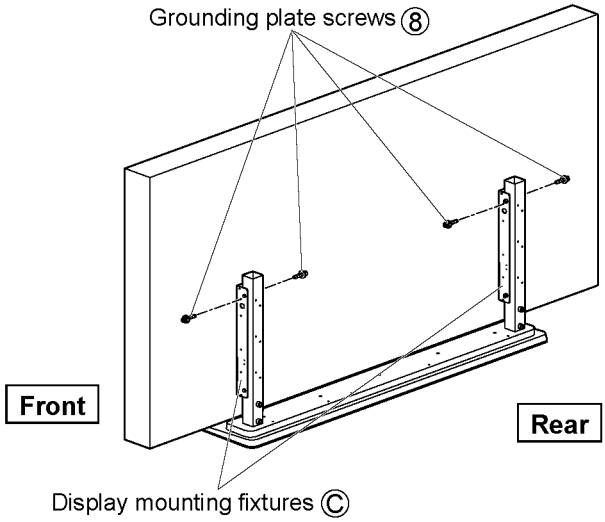
   ※Carefully store the removed eye bolt.

5. **Installing the grounding plate**

   Notes

   - The stamped marks (L and R) on the grounding plates are as seen from the rear of the display.
   - Attach the grounding plates the same way for both supports (left and right).

   1) Loosely insert the grounding plate screws ⑧ (2 each on the left and on the right) to the holes on the upper end of display mounting fixtures Ⓒ .

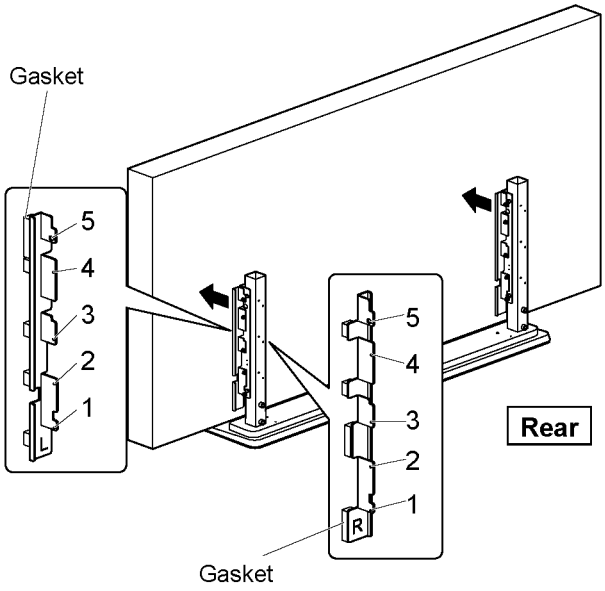


2) Align the hole position of grounding plate Ⓔ with the grounding plate screw ⑧ mounted during Step 1, then put on grounding plate Ⓔ .

3) Push the grounding plate Ⓔ mounted in Step 2 toward the plasma display side, and align the hole positions with the display mounting fixture Ⓒ.
※ Make contact between the gasket on the front of the grounding plate and the plasma display.

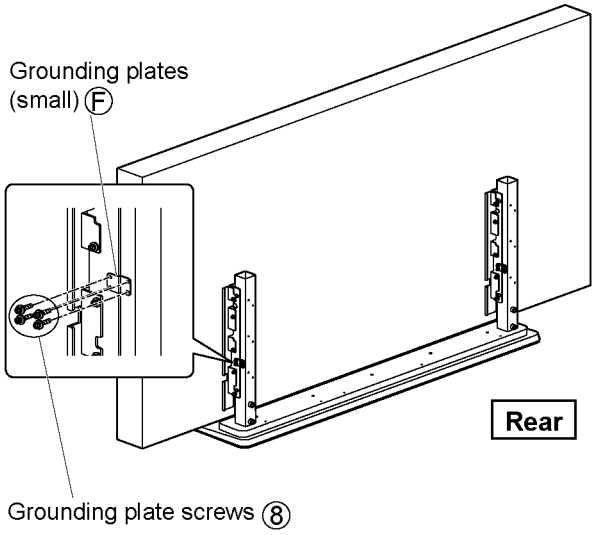
4) Insert the grounding plate screws ⑧ in the numeric order shown in the illustration.
(5 is the loosely inserted screw from Step 1. Insert so that the washer does not get wedged in.)
Assemble the right side the same way.

- The screws should be securely tightened to the torque given below.
(1.2~1.5 N•m)



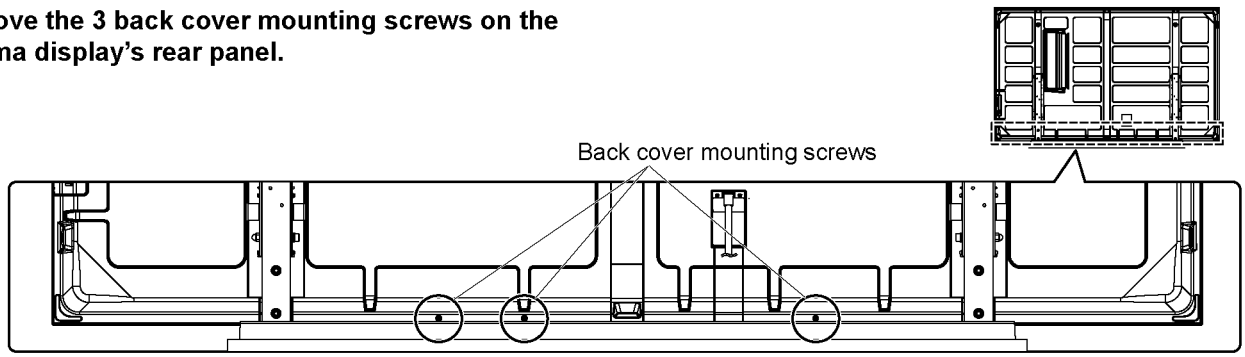
5) Using 4 grounding plate screws ⑧, mount grounding plate (small) Ⓕ to display mounting fixture Ⓒ and supports Ⓑ.
Assemble the right side the same way.

- The screws should be securely tightened to the torque given below.
(1.2~1.5 N•m)

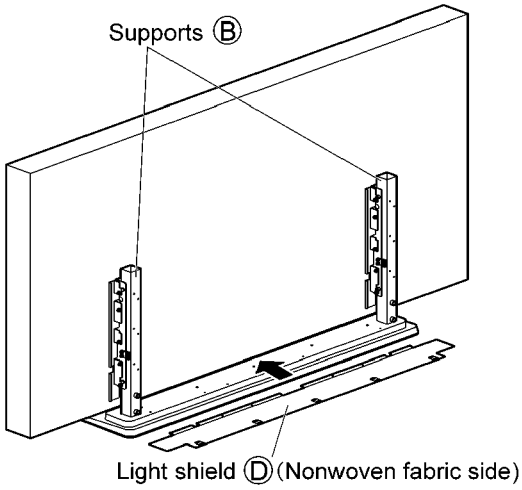


4. Mounting the light shield

1. Remove the 3 back cover mounting screws on the plasma display's rear panel.

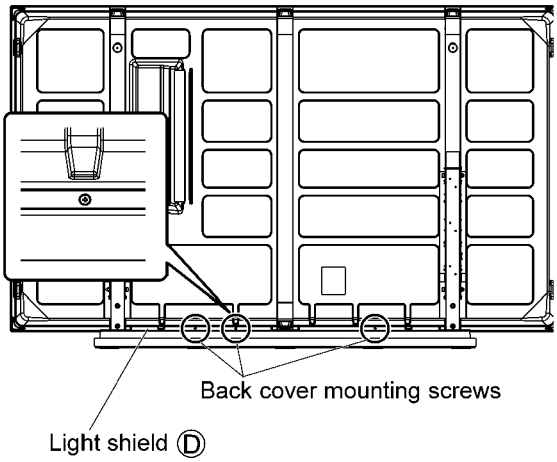


2. **As shown in the figure, insert the light shield Ⓓ between the plasma display main unit and support Ⓑ.**



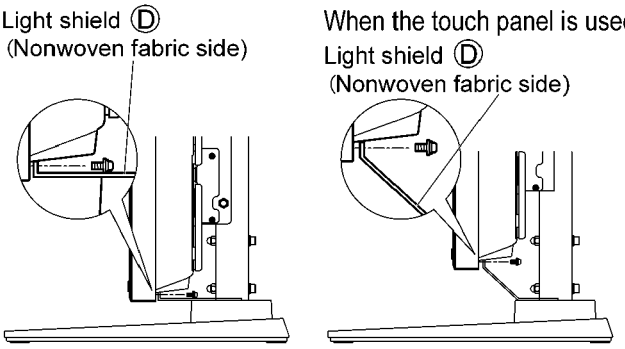
3. **Align the holes in the back cover of the plasma display used by the screws which were removed in step 1 with the holes in the light shield Ⓓ.**

4. **Fasten the light shield Ⓓ and back cover together using the 3 back cover mounting screws which were removed in step 1.**



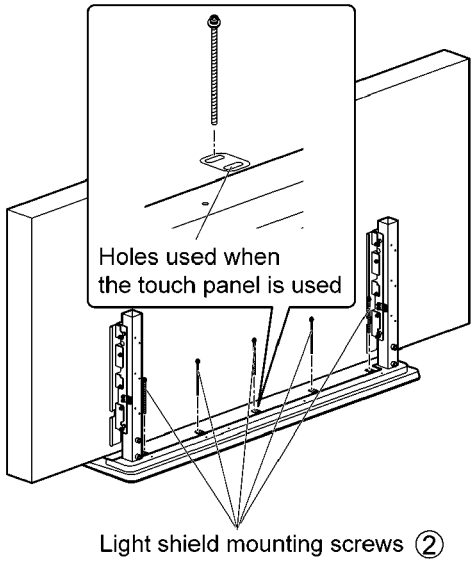
- The screws should be securely tightened to the torque given below.
  (1.2~1.5 N•m)

Side view



5. **Mount the light shield Ⓓ onto the stand base Ⓐ using the 5 light shield mounting screws ②.**

- The screws should be securely tightened to the torque given below.
  (1.2~1.5 N•m)

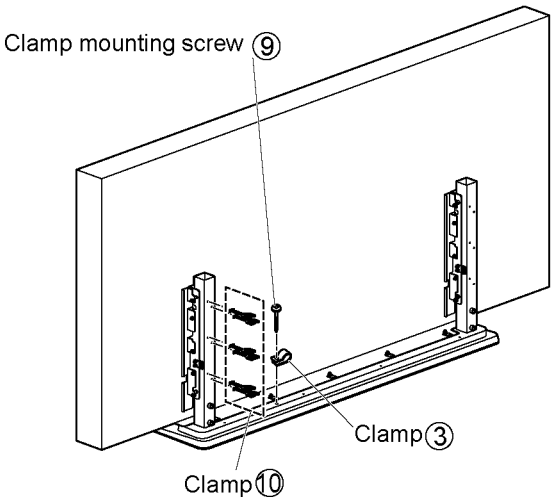


5. Wiring the equipment to be connected

For details on how to install the equipment to be connected with the display or adding more equipment, refer to the operating instructions of the plasma display and the operating instructions of the equipment concerned.
For details on how to wire the equipment to be connected to the plasma display, refer to the operating instructions of the plasma display.

1. **Insert the 6 clamps ⑩ into the rear panel of the right support Ⓑ .**

2. **Mount the clamp ③ onto the stand base Ⓐ using the clamp mounting screw ⑨ .**

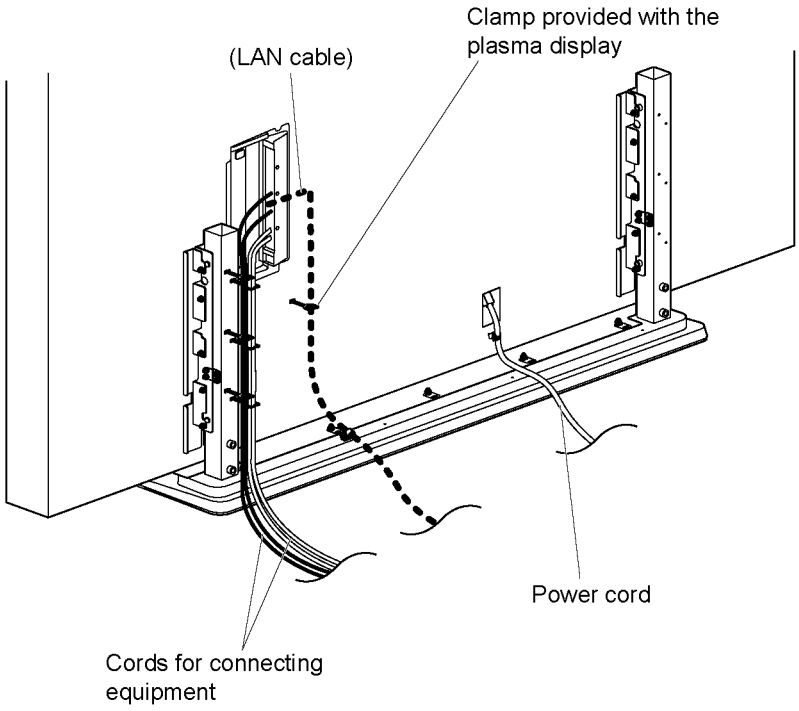


3. **If the equipment to be connected (such as an AV amplifier and DVD recorder) is to be installed at the same time for use, connect the plasma display wires first.**

4. **When wiring to connecting equipment, pull wiring to the rear, using the mounted clamps.**

   The support Ⓑ side is for the cords from the connecting equipment, and the stand base Ⓐ side is used for the LAN cable.

   When using the LAN cable
   Refer to the operating instructions of the plasma display, and use the clamp provided with the plasma display and the clamp of the stand base Ⓐ .
   (For the wiring, refer to the dashed line in the figure.)



Caution

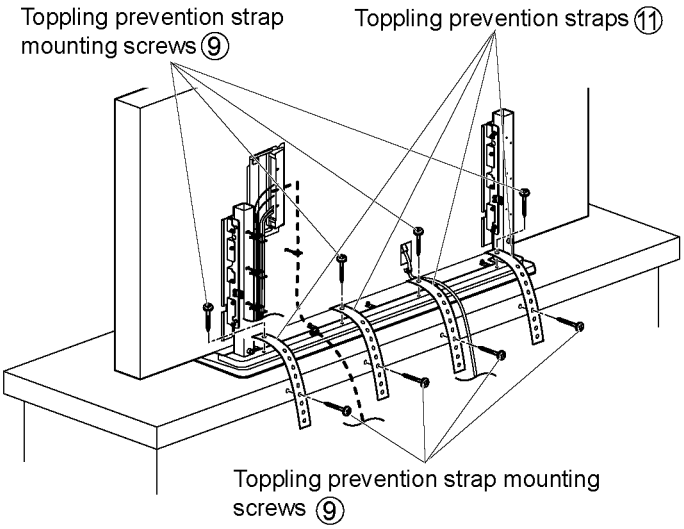
- If using LAN cable to connect plasma display, connect the LAN cable so it is separate from other cables (this does not include the power cord).

6. Toppling prevention

Securing to the cabinet

1. **Use the 4 toppling prevention belt mounting screws ⑨ to attach the 4 toppling prevention belts ⑪ to the stand base Ⓐ as shown in the figure.**
2. **Attach the toppling prevention belts ⑪ to the prepared holes of the pedestal using the 4 toppling prevention belt mounting screws ⑨.**

   If no prepared holes are provided, make holes in the center of the thickness dimension of the top panel, and use them to secure the belts.

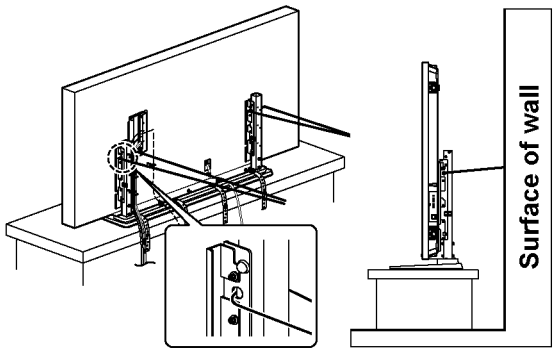


Anchoring to wall or post by wire

Pass commonly available metal wire (with breaking strength of at least 7.8 kN) through holes in display mounting fixture Ⓒ and anchor to a strong wall, post, etc., leaving no slackness in the wire.

Note

- Use a commonly available product (with breaking strength of at least 7.8 kN) that is suitable for the way your home is built.



3.3. Removing the plasma display

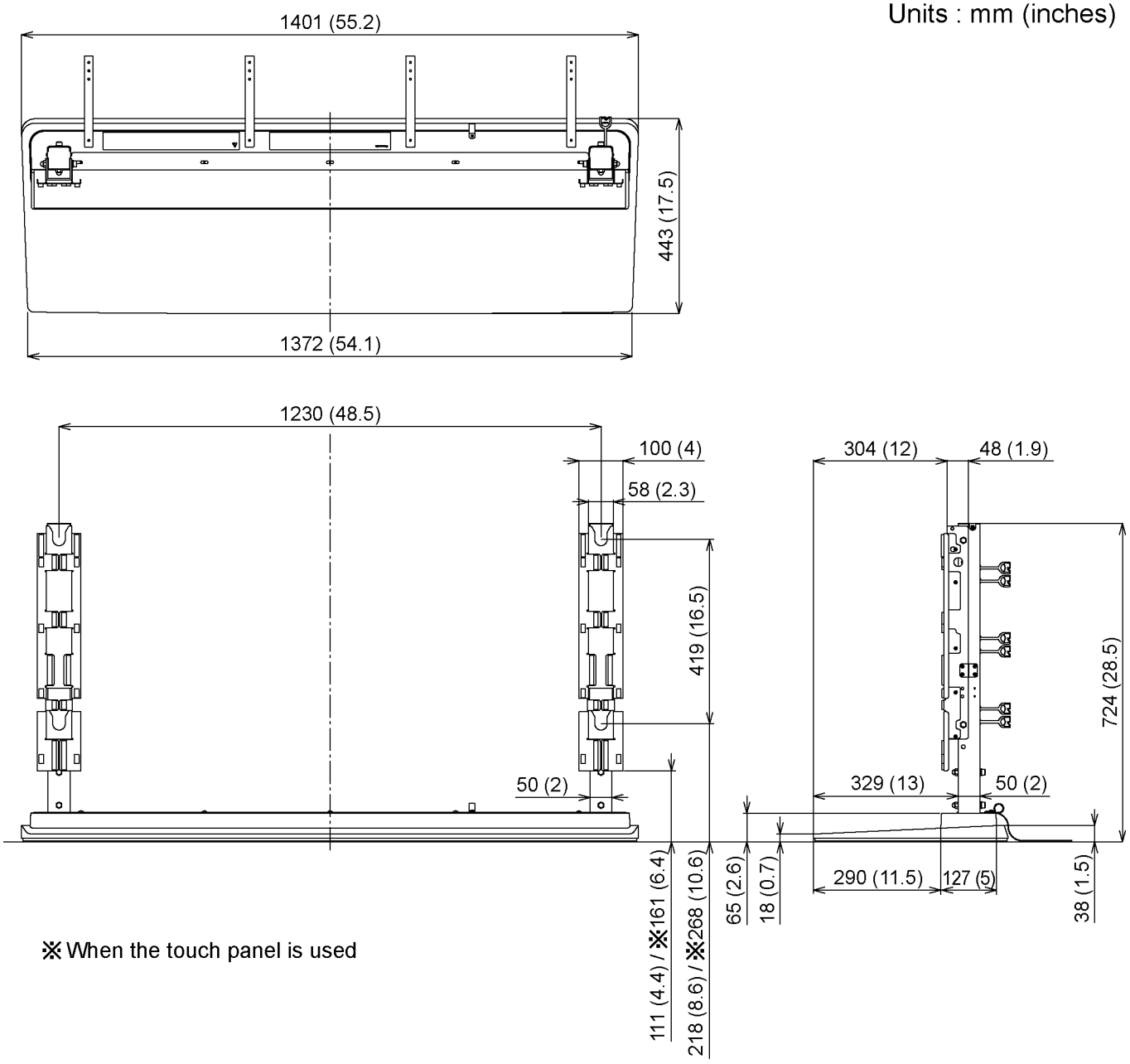
Caution

- Always ask a qualified professional to move the plasma display or remove it from its bracket.
- Because the display is heavy, handle it carefully by the use of lifting equipment (machine).

1. **Remove the toppling prevention system.**
2. **Remove wiring to connecting devices, and then remove grounding plate.**
3. **Remove the light shield.**
4. **Remove the 2 unit lock-in screws starting from the upper left side of the left and right display mounting fixtures.**
5. **With the plasma display held in suspension, pull it forward to remove it.**

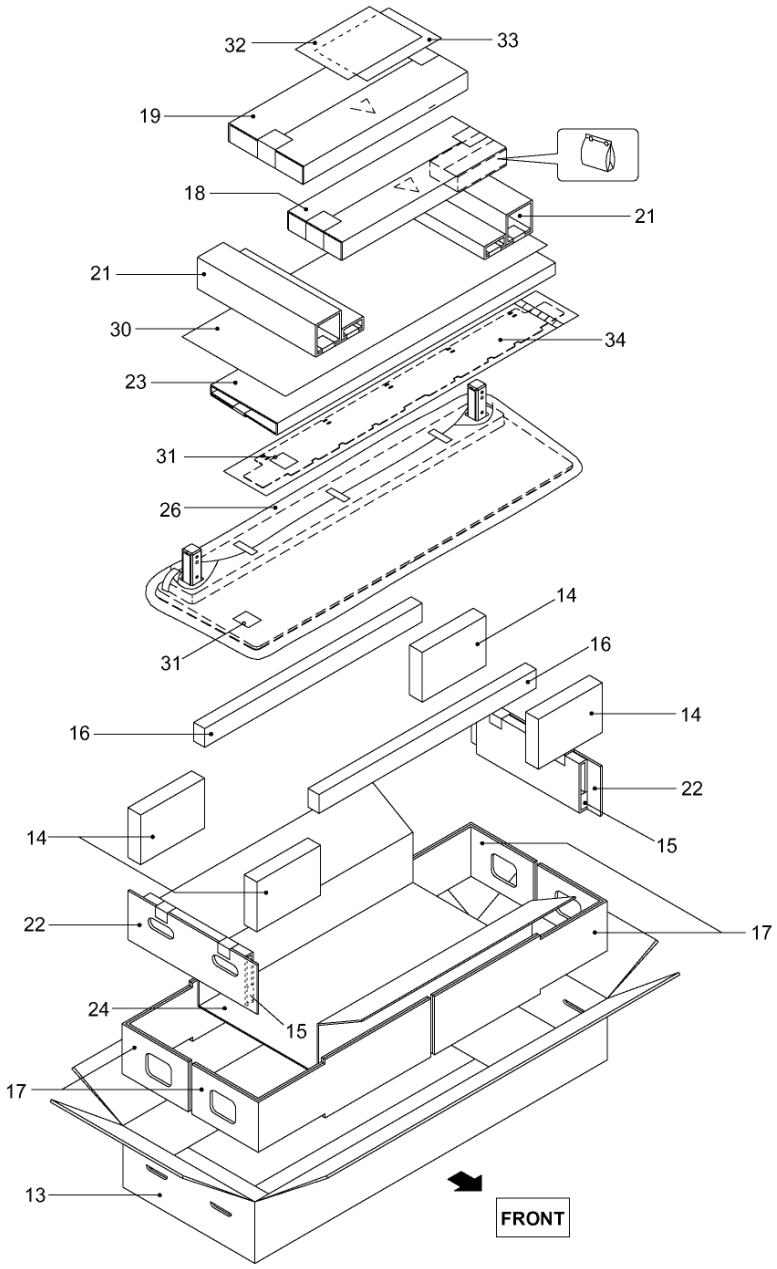
4 Dimensions

Units : mm (inches)

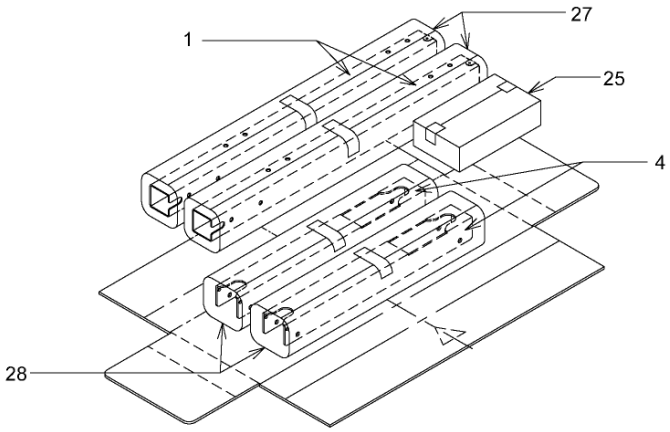


※When the touch panel is used

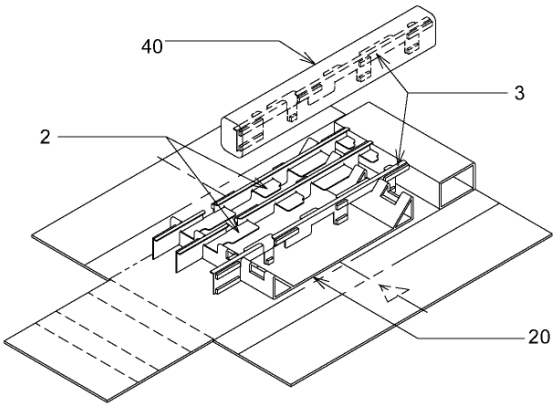
Model No. : TY-ST85P12/TY-ST85P12C Exploded View



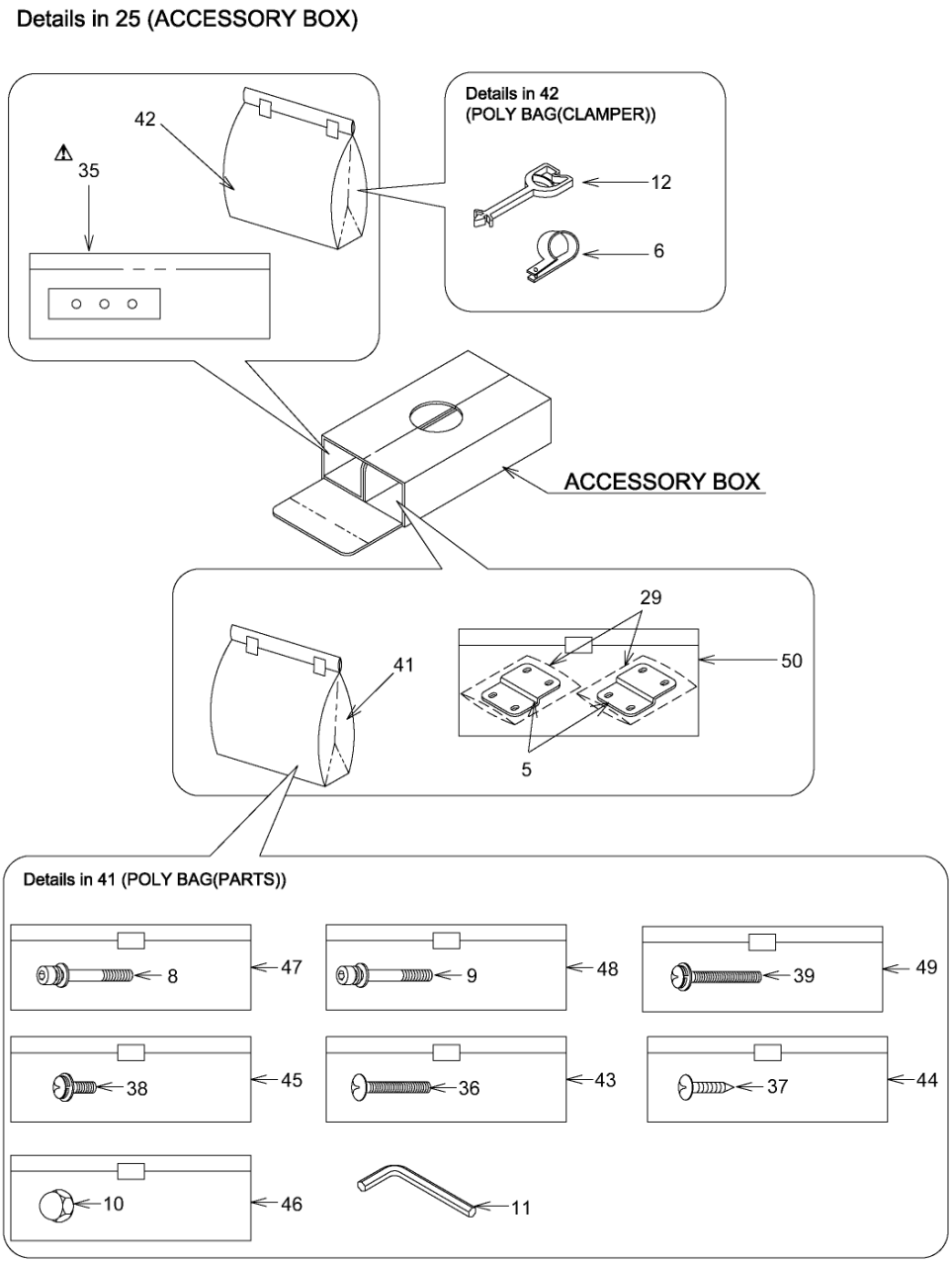
Details in 18 (PROTECTION BOX(PROP))



Details in 19 (PROTECT BOX(EMI METAL))



Model No. : TY-ST85P12/TY-ST85P12C Packing Summary (2)



Model No. : TY-ST85P12/TY-ST85P12C Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	TBLA0500	PROP ASSY	2	
	2	TBLA0505	EMI METAL (L) ASSY	2	
	3	TBLA0506	EMI METAL (R) ASSY	2	
	4	TBLA3799	HOOK METAL	2	
	5	TBLA3813	EMI METAL (S)	2	
	6	TBLB3253	CLAMPER	1	
	8	THEA218J	SCREW(PROP)	4	
	9	THEA219J	SCREW(HOOK METAL)	4	
	10	THNX051J	FLANGE DOMED CAP NUT (M8)	8	
	11	TKKX0016	HEXAGON WRENCH (6mm)	1	
	12	TMM15412-2	CLAMPER	6	
	13	TPCC72101	CARTON BOX	1	TY-ST85P12
	13	TPCC72101A	CARTON BOX	1	TY-ST85P12C
	14	TPDA2152	CUSHION (FRONT/REAR)	4	
	15	TPDA2166	CUSHION (L/R)	2	
	16	TPDA2167	CUSHION (BOTTOM)	2	
	17	TPDF2395	REINFORCEMENT CARD BOARD	4	
	18	TPDF2396	PROTECTION BOX (PROP)	1	
	19	TPDF2397	PROTECT BOX (EMI METAL)	1	
	20	TPDF2398	PROTECT PDA (EMI METAL)	1	
	21	TPDF2399	PROTECTION PAD (PROP)	2	
	22	TPDF2400	PROTECTION PAD (L/R)	2	
	23	TPDF2401	PROTECTION PAD (CENTER)	1	
	24	TPDF2403	PROTECTION PAD	1	
	25	TPDF2404	ACCESSORY BOX	1	
	26	TPEB411	PROTECTION SHEET (STAND BASE)	1	
	27	TPEB412	PROTECTION SHEET (PROP)	2	
	28	TPEB413	PROTECTION SHEET (HOOK METAL)	2	
	29	TPEB415	PROTECT SHEET (EMI METAL (S))	2	
	30	TPFD112044	PROTECTION PAPER (STAND BASE)	1	
	31	TQFF892	Material mark label(PE-LD)	2	
	32	TQZJ173	INSTRUCTION SHEET	1	TY-ST85P12
	32	TQZJ183	INSTRUCTION SHEET	1	TY-ST85P12C
	33	TQZJ189	CORRECT WIRING HANDBILL	1	TY-ST85P12
	33	TQZJ190	CORRECT WIRING HANDBILL	1	TY-ST85P12C
	34	TXFBL011WCJ	MASK PLATE ASSY	1	
⚠	35	TXFKL011WCJ	TIP-PREVENTION BELT ASSY	1	
	36	XSN6+60FJK	SCREW(HOOK STOPPER)	2	
	37	XTT5+20AFJK	SCREW(BELT / CLAMPER)	9	
	38	XYN4+F10FJK	SCREW(EMI METAL L/R)	28	
	39	XYN5+F65FJK	SCREW (MASK PLATE)	5	
	40	XZB12X60C06	POLY BAG (EMI METAL)	4	
	41	XZB17X19C03	POLY BAG (PARTS)	1	

Model No. : TY-ST85P12/TY-ST85P12C Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	42	XZB17X19C03	POLY BAG (CLAMPER)	1	
	43	XZB7.5X9A05	POLY BAG(HOOK STOPPER)	1	
	44	XZB7.5X9A05	POLY BAG(BELT / CLAMPER)	1	
	45	XZB7.5X9A05	POLY BAG(EMI METAL L/R)	1	
	46	XZB7.5X9A05	POLY BAG(NUT)	1	
	47	XZB9X16A06	POLY BAG (PROP)	1	
	48	XZB9X16A06	POLY BAG (HOOK METAL)	1	
	49	XZB9X16A06	POLY BAG (MASK PLATE)	1	
	50	XZB9X16A06	POLY BAG (EMI METAL (S))	1	